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ALP

MATERIAL SAFETY DATA SHEET

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)



IDENTITY (As Used on Label and List)

81199 - Liquid Anchor Epoxy (Hardener)

Note: Blank spaces are not permitted. If any item is not applicable,
or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name
KAR PRODUCTS/Distributor

Emergency Telephone Number
708/296-6111

Address (Number, Street, City, State, and ZIP Code)
461 North Third Avenue

Telephone Number for Information
Same as above

Des Plaines, Illinois 60016

Date Prepared
6/6/90

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Aliphatic Mercaptan (CAS - Unknown)	NE	NE		45
Polymercaptan (CAS - Unknown)	NE	NE		45
Additives (Proprietary)	NE	NE		10

Section III — Physical/Chemical Characteristics

Boiling Point	ND	Specific Gravity (H ₂ O = 1)	1.07
Vapor Pressure (mm Hg.)	ND	Melting Point	NA
Vapor Density (AIR = 1)	ND	Evaporation Rate (Butyl Acetate = 1)	ND

Solubility in Water ND

Appearance and Odor
Brown thixotropic paste; strong skunk-like odor

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) 200°F (93°C)	Flammable Limits	LEL ND	UEL ND
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Extinguishing Media
Use water spray, dry chemical, "alcohol foam" or carbon dioxide.

Special Fire Fighting Procedures
Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for those attempting to stop a leak. Protective clothing and self-contained respiratory protection should be worn by firefighters in areas where product is stored.

Unusual Fire and Explosion Hazards

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Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable		Avoid contact with strong oxidants, epoxy resins & amine mixtures especially when hot.
Incompatibility (Materials to Avoid) Contact with large masses of epoxy resins generates large quantity of heat due to exothermic reaction.			
Hazardous Decomposition or Byproducts Carbon monoxide, carbon dioxide, and oxides of nitrogen & sulfur on burning.			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur		
NA			

Section VI — Health Hazard Data

Route(s) of Entry:			
Inhalation?	Slightly toxic	Skin?	Mildly Irritating
Ingestion?	Slightly toxic		
Health Hazards (Acute and Chronic)			
Mild skin irritant, index - 1.6/7 (rabbit), moderate eye irritant, index 27/110 (rabbit).			
Carcinogenicity:			
NTP?	IARC Monographs?	OSHA Regulated?	
Signs and Symptoms of Exposure			
May cause skin, eye and respiratory tract irritation, nausea and vomiting.			
Medical Conditions			
Generally Aggravated by Exposure			
Emergency and First Aid Procedures			
SUBJECT IS TO SEEK MEDICAL ATTENTION IMMEDIATELY. Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart. Wash contaminated skin before reuse. Discard footwear which cannot be decontaminated. Seek medical help.			

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	
Stop leaks. Contain spill by diking. Cover spill with alcohol foam to suppress vaporization. Clean spills immediately. Large spills may be pumped into drum or tank truck. Small spills may be soaked up with inorganic material i.e. sand. Place material in closed container, label & remove to safe place outside to await proper disposal. Spread liberal coat of potassium permanganate over spill area to react with spill residues. If needed sprinkle w/water to aid reaction. After 1 hr., soak up w/inorganic material & place in closed container w/contaminated soil, remove to safe place to await proper disposal. Wear adequate protective clothing during handling. Dispose in accordance w/Federal, State & local regulations re: health & pollution. May be disposed of via incineration or approved chemical waste landfill, regulations permitting.	
Waste Disposal Method	
Precautions to Be Taken in Handling and Storing	
If subjected to freezing temperatures, allow to warm to room temperatures & mix well before using. Avoid moisture contamination. Keep containers closed when not in use. Avoid contact with eyes, skin, & clothing. Avoid breathing mist or vapors. Do not take internally. Use with adequate ventilation. When exposed to vapors, employ respiratory protection. Wear hard hats, chemical splash goggles, rubber gloves & protective clothing. Wash thoroughly after handling. Keep container closed.	
Other Precautions	
piratory protection. Wear hard hats, chemical splash goggles, rubber gloves & protective clothing. Wash thoroughly after handling. Keep container closed.	

Section VIII — Control Measures

Respiratory Protection (Specify Type)	
NIOSH approved industrial canister type gas mask or organic vapor cartridge respirator.	
Ventilation	Local Exhaust
	Good industrial practice dictates the work area be well ventilated. If handling in confined air space, use respiratory equipment.
Protective Gloves	Special
	Other
Neoprene rubber gloves to minimize irritation. Chemical splash goggles	
Other Protective Clothing or Equipment	
Hard hats, safety shoes, rubber boots should be worn with protective clothing. Safety showers and eyewash should be provided in all areas. Contaminated clothing should be laundered separately. Footwear should be discarded if non-washable.	
Work/Hygienic Practices	